Fei Gao

List of Publications by Year
in descending order

82 papers	3,423 citations	136950 32 h-index	155660 55 g-index
91 all docs	91 docs citations	91 times ranked	5517 citing authors

#	Article	IF	Citations
1	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. Cell Research, 2014, 24, 852-869.	12.0	213
2	The Wilms tumor gene, Wt1 , is required for Sox9 expression and maintenance of tubular architecture in the developing testis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11987-11992.	7.1	205
3	Mutations of MSH5 in nonobstructive azoospermia (NOA) and rescued via in vivo gene editing. Signal Transduction and Targeted Therapy, 2022, 7, 1.	17.1	193
4	Wt1negatively regulates Î²-catenin signaling during testis development. Development (Cambridge), 2008, 135, 1875-1885.	2.5	151
5	Autophagy regulates testosterone synthesis by facilitating cholesterol uptake in Leydig cells. Journal of Cell Biology, 2018, 217, 2103-2119.	5.2	136
6	Mesenchymal stem cells and their secreted molecules predominantly ameliorate fulminant hepatic failure and chronic liver fibrosis in mice respectively. Journal of Translational Medicine, 2016, 14, 45.	4.4	128
7	The Wilms Tumor Gene, Wt1, Is Critical for Mouse Spermatogenesis via Regulation of Sertoli Cell Polarity and Is Associated with Non-Obstructive Azoospermia in Humans. PLoS Genetics, 2013, 9, e1003645.	3.5	109
8	Autophagy is required for ectoplasmic specialization assembly in sertoli cells. Autophagy, 2016, 12, 814-832.	9.1	105
9	Mir223 restrains autophagy and promotes CNS inflammation by targeting ATG16L1. Autophagy, 2019, 15, 478-492.	9.1	104
10	Wt1 ablation and Igf2 upregulation in mice result in Wilms tumors with elevated ERK1/2 phosphorylation. Journal of Clinical Investigation, 2011, 121, 174-183.	8.2	104
11	Loss of the golgin GM130 causes Golgi disruption, Purkinje neuron loss, and ataxia in mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 346-351.	7.1	96
12	Mutations in MSH5 in primary ovarian insufficiency. Human Molecular Genetics, 2017, 26, 1452-1457.	2.9	87
13	Essential role for SUN5 in anchoring sperm head to the tail. ELife, 2017, 6, .	6.0	84
14	Reprogramming of Sertoli cells to fetal-like Leydig cells by Wt1 ablation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4003-4008.	7.1	79
15	Wt1 functions in ovarian follicle development by regulating granulosa cell differentiation. Human Molecular Genetics, 2014, 23, 333-341.	2.9	73
16	Sirt1 regulates acrosome biogenesis by modulating autophagic flux during spermiogenesis in mice. Development (Cambridge), 2017, 144, 441-451.	2.5	73
17	CSB-PGBD3 Mutations Cause Premature Ovarian Failure. PLoS Genetics, 2015, 11, e1005419.	3.5	70
18	The Wt1 +/R394W Mouse Displays Glomerulosclerosis and Early-Onset Renal Failure Characteristic of Human Denys-Drash Syndrome. Molecular and Cellular Biology, 2004, 24, 9899-9910.	2.3	63

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19	Systematic analysis of gut microbiota in pregnant women and its correlations with individual heterogeneity. Npj Biofilms and Microbiomes, 2020, 6, 32.	6.4	61
20	H2B ubiquitination regulates meiotic recombination by promoting chromatin relaxation. Nucleic Acids Research, 2016, 44, gkw652.	14.5	59
21	Globozoospermia and lack of acrosome formation in GM130-deficient mice. Cell Death and Disease, 2018, 8, e2532-e2532.	6.3	57
22	Histone Arginine Methylation by PRMT7 Controls Germinal Center Formation via Regulating Bcl6 Transcription. Journal of Immunology, 2015, 195, 1538-1547.	0.8	55
23	BCAS2 is involved in alternative mRNA splicing in spermatogonia and the transition to meiosis. Nature Communications, 2017, 8, 14182.	12.8	53
24	Wt1 directs the lineage specification of sertoli and granulosa cells by repressing Sf1 expression. Development (Cambridge), 2017, 144, 44-53.	2.5	52
25	High autophagic flux guards ESC identity through coordinating autophagy machinery gene program by FOXO1. Cell Death and Differentiation, 2017, 24, 1672-1680.	11.2	52
26	Transcription Factor RFX2 Is a Key Regulator of Mouse Spermiogenesis. Scientific Reports, 2016, 6, 20435.	3.3	51
27	Wt1 dictates the fate of fetal and adult Leydig cells during development in the mouse testis. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E1131-E1143.	3.5	49
28	TMCO1 is essential for ovarian follicle development by regulating ER Ca2+ store of granulosa cells. Cell Death and Differentiation, 2018, 25, 1686-1701.	11.2	49
29	Adiponectin-derived active peptide ADP355 exerts anti-inflammatory and anti-fibrotic activities in thioacetamide-induced liver injury. Scientific Reports, 2016, 6, 19445.	3.3	47
30	Prmt5 is required for germ cell survival during spermatogenesis in mice. Scientific Reports, 2015, 5, 11031.	3.3	39
31	The HMGA2-IMP2 Pathway Promotes Granulosa Cell Proliferation in Polycystic Ovary Syndrome. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 1049-1059.	3.6	38
32	Generation of male germ cells from mouse induced pluripotent stem cells in vitro. Stem Cell Research, 2014, 12, 517-530.	0.7	36
33	Mea6 controls VLDL transport through the coordinated regulation of COPII assembly. Cell Research, 2016, 26, 787-804.	12.0	34
34	Novel WT1 Missense Mutations in Han Chinese Women with Premature Ovarian Failure. Scientific Reports, 2015, 5, 13983.	3.3	33
35	Î²-Catenin directs the transformation of testis Sertoli cells to ovarian granulosa-like cells by inducing Foxl2 expression. Journal of Biological Chemistry, 2017, 292, 17577-17586.	3.4	33
36	cTAGE5 deletion in pancreatic Î² cells impairs proinsulin trafficking and insulin biogenesis in mice. Journal of Cell Biology, 2017, 216, 4153-4164.	5.2	32

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37	Wdr62 is involved in female meiotic initiation via activating JNK signaling and associated with POI in humans. PLoS Genetics, 2018, 14, e1007463.	3.5	30
38	Plumbagin protects liver against fulminant hepatic failure and chronic liver fibrosis via inhibiting inflammation and collagen production. Oncotarget, 2016, 7, 82864-82875.	1.8	29
39	Equatorin is not essential for acrosome biogenesis but is required for the acrosome reaction. Biochemical and Biophysical Research Communications, 2014, 444, 537-542.	2.1	27
40	Evolutionarily conservative and non-conservative regulatory networks during primate interneuron development revealed by single-cell RNA and ATAC sequencing. Cell Research, 2022, 32, 425-436.	12.0	25
41	Disruption of genital ridge development causes aberrant primordial germ cell proliferation but does not affect their directional migration. BMC Biology, 2013, 11, 22.	3.8	22
42	STMN1 Promotes Progesterone Production Via StAR Up-regulation in Mouse Granulosa Cells. Scientific Reports, 2016, 6, 26691.	3.3	19
43	cTAGE5/MEA6 plays a critical role in neuronal cellular components trafficking and brain development. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9449-E9458.	7.1	18
44	High levels of testosterone inhibit ovarian follicle development by repressing the FSH signaling pathway. Journal of Huazhong University of Science and Technology [Medical Sciences], 2015, 35, 723-729.	1.0	17
45	CCDC38 is required for sperm flagellum biogenesis and male fertility in mice. Development (Cambridge), 2022, 149, .	2.5	17
46	An increasing trend of neonatal invasive multidrug-resistant group B streptococcus infections in southern China, 2011–2017. Infection and Drug Resistance, 2018, Volume 11, 2561-2569.	2.7	16
47	WDR62 is involved in spindle assembly by interacting with CEP170 in spermatogenesis. Development (Cambridge), 2019, 146, .	2.5	16
48	Expression of Matrix Metalloproteinase-2, Tissue Inhibitors of Metalloproteinase-1, -3 at the Implantation Site of Rhesus Monkey During the Early Stage of Pregnancy. Endocrine, 2001, 16, 47-54.	2.2	15
49	Protein Arginine Methyltransferase 5 (Prmt5) Is Required for Germ Cell Survival During Mouse Embryonic Development1. Biology of Reproduction, 2015, 92, 104.	2.7	15
50	Molecular characteristics of group B Streptococcus isolates from infants in southern mainland China. BMC Infectious Diseases, 2019, 19, 812.	2.9	15
51	Brain-specific Wt1 deletion leads to depressive-like behaviors in mice via the recruitment of Tet2 to modulate Epo expression. Molecular Psychiatry, 2021, 26, 4221-4233.	7.9	15
52	Inactivation of Wt1 causes pre-granulosa cell to steroidogenic cell transformation and defect of ovary developmentâ€. Biology of Reproduction, 2020, 103, 60-69.	2.7	15
53	Proteasome subunit Î±4s is essential for formation of spermatoproteasomes and histone degradation during meiotic DNA repair in spermatocytes. Journal of Biological Chemistry, 2021, 296, 100130.	3.4	14
54	Obesity modulates cell-cell interactions during ovarian folliculogenesis. IScience, 2022, 25, 103627.	4.1	12

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55	Epg5 deficiency leads to primary ovarian insufficiency due to WT1 accumulation in mouse granulosa cells. Autophagy, 2023, 19, 644-659.	9.1	12
56	Prevalence, Characterization, and Drug Resistance of Staphylococcus Aureus in Feces From Pediatric Patients in Guangzhou, China. Frontiers in Medicine, 2020, 7, 127.	2.6	11
57	Paternal USP26 mutations raise Klinefelter syndrome risk in the offspring of mice and humans. EMBO Journal, 2021, 40, e106864.	7.8	11
58	Oral administration of recombinant Bacillus subtilis spores expressing Helicobacter pylori neutrophilâ€activating protein suppresses peanut allergy via upâ€regulation of Tregs. Clinical and Experimental Allergy, 2019, 49, 1605-1614.	2.9	10
59	FANCI plays an essential role in spermatogenesis and regulates meiotic histone methylation. Cell Death and Disease, 2021, 12, 780.	6.3	10
60	PRMT5 regulates ovarian follicle development by facilitating Wt1 translation. ELife, 2021, 10, .	6.0	10
61	Changes in the morphology and protein expression of germ cells and Sertoli cells in plateau pikas testes during non-breeding season. Scientific Reports, 2016, 6, 22697.	3.3	9
62	The functions ofWt1in mouse gonad development and somatic cells differentiation. Biology of Reproduction, 2022, 107, 269-274.	2.7	9
63	Association of maternal serum homocysteine concentration levels in late stage of pregnancy with preterm births: a nested caseâ€“control study. Journal of Maternal-Fetal and Neonatal Medicine, 2018, 31, 2673-2677.	1.5	8
64	Tracing the origin of the placental trophoblast cells in mouse embryo developmentâ€. Biology of Reproduction, 2020, 102, 598-606.	2.7	8
65	PRMT7 is involved in regulation of germ cell proliferation during embryonic stage. Biochemical and Biophysical Research Communications, 2020, 533, 938-944.	2.1	8
66	Effects of Different Biomaterials and Cellular Status on Testicular Cell Selfâ€Organization. Advanced Biology, 2020, 4, e1900292.	3.0	8
67	Active Surveillance, Drug Resistance, and Genotypic Profiling of Staphylococcus aureus Among School-Age Children in China. Frontiers in Medicine, 2021, 8, 701494.	2.6	8
68	Fate determination of fetal Leydig cells. Frontiers in Biology, 2011, 6, 12-18.	0.7	7
69	Role of <i>Cyp19a1</i> in the female pathway of a freshwater turtle species (<i>Mauremys reevesii</i>) with temperature-dependent sex determination. Zoological Research, 2022, 43, 81-84.	2.1	7
70	The role of fructose-1,6-bisphosphatase 1 in abnormal development of ovarian follicles caused by high testosterone concentration. Molecular Medicine Reports, 2017, 16, 6489-6498.	2.4	6
71	PRMT5 Is Involved in Spermatogonial Stem Cells Maintenance by Regulating Plzf Expression via Modulation of Lysine Histone Modifications. Frontiers in Cell and Developmental Biology, 2021, 9, 673258.	3.7	6
72	Fancb deficiency causes premature ovarian insufficiency in mice. Biology of Reproduction, 2022, 107, 790-799.	2.7	5

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73	Relationship between uterine expression of matrix metalloproteinases and their inhibitors and endometrial receptivity. Science in China Series C: Life Sciences, 2002, 45, 406.	1.3	4
74	Wilmsâ€™ Tumor 1 Overexpression in Granulosa Cells Is Associated with Polycystic Ovaries in Polycystic Ovary Syndrome Patients. Gynecologic and Obstetric Investigation, 2018, 83, 241-246.	1.6	4
75	Loss of GM130 does not impair oocyte meiosis and embryo development in mice. Biochemical and Biophysical Research Communications, 2020, 532, 336-340.	2.1	4
76	Oral administration of recombinant Bacillus subtilis spores expressing mutant staphylococcal enterotoxin B provides potent protection against lethal enterotoxin challenge. AMB Express, 2020, 10, 215.	3.0	4
77	Genomic Basis of Occurrence of Cryptic Resistance among Oxacillin- and Cefoxitin-Susceptible mecA -Positive Staphylococcus aureus. Microbiology Spectrum, 2022, 10, .	3.0	4
78	Abnormal Meiosis Initiation in Germ Cell Caused by Aberrant Differentiation of Gonad Somatic Cell. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-8.	4.0	3
79	Predominance of III/ST19 and Ib/ST10 Lineages With High Multidrug Resistance in Fluoroquinolone-Resistant Group B Streptococci Isolates in Which a New Integrative and Conjugative Element Was Identified. Frontiers in Microbiology, 2020, 11, 609526.	3.5	3
80	Somatic cellâ€derived BMPs induce premature meiosis in male germ cells during the embryonic stage by upregulating Dazl expression. FASEB Journal, 2022, 36, e22131.	0.5	1
81	The potential risk factors of placenta increta and the role of octamethylcyclotetrasiloxane. Archives of Gynecology and Obstetrics, 2021, , 1.	1.7	0
82	The Regulation of Gonadal Somatic Cell Differentiation in Humans. Genomics, Proteomics and Bioinformatics, 2022, 20, 219-222.	6.9	0